FIGURE 1

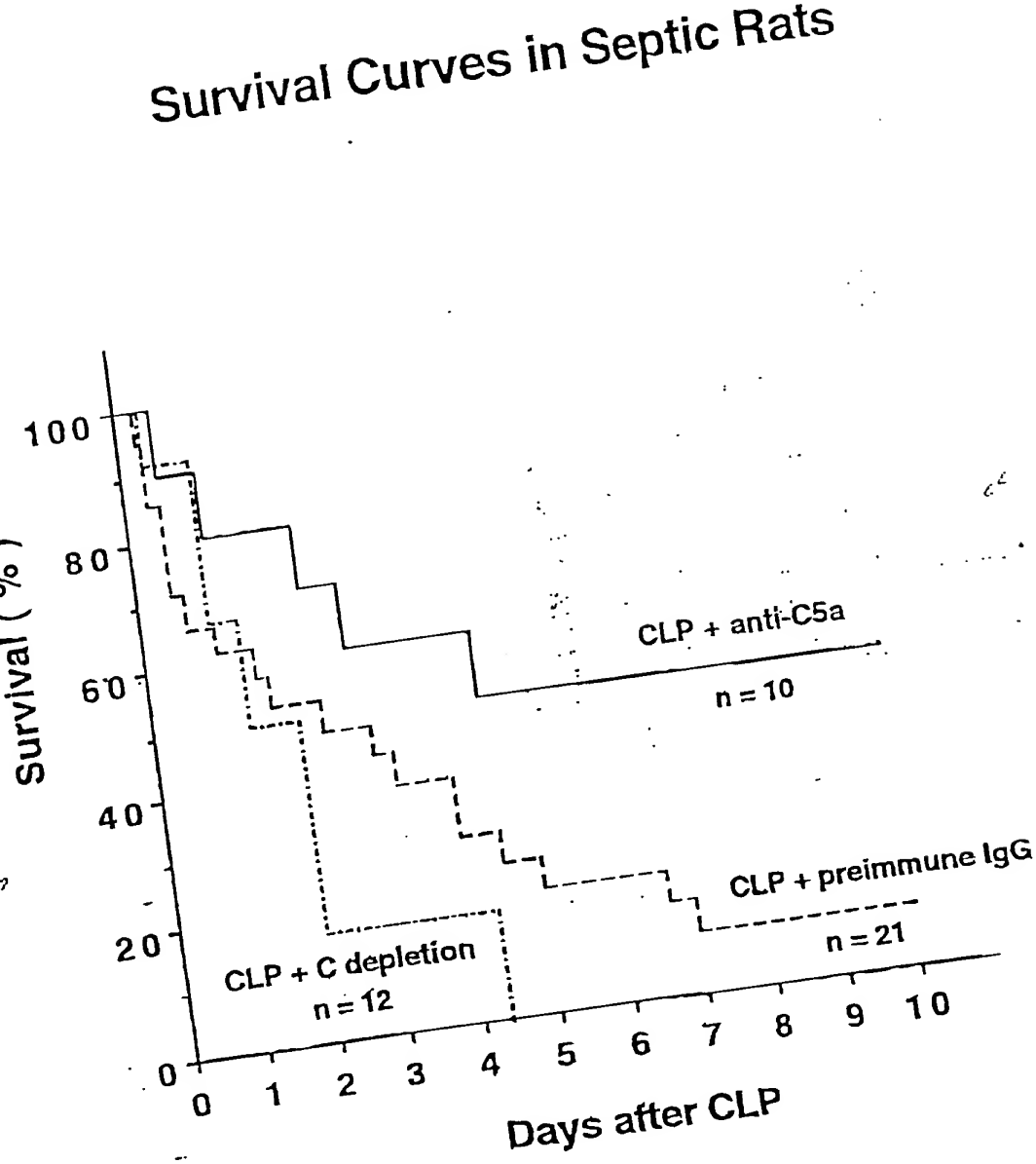

Survival Curves in Septic Rats
Survival (%)
100
80
60
40
20
0
0 1 2 3 4 5 6 7 8 9 10
Days after CLP
CLP + anti-C5a
n = 10
CLP + preimmune IgG
n = 21
CLP + C depletion
n = 12

FIGURE 2

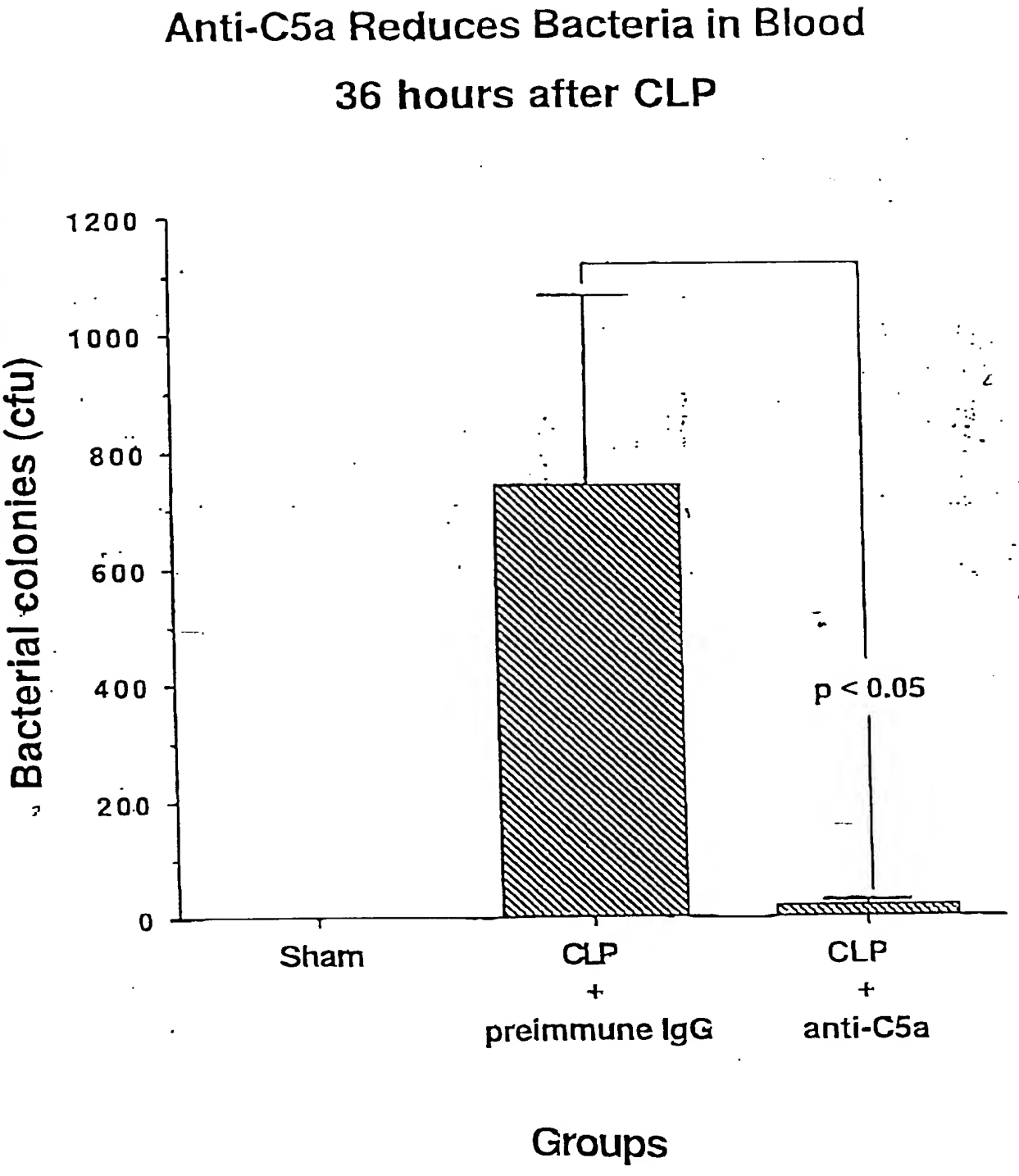

Anti-C5a Reduces Bacteria in Blood
36 hours after CLP
Bacterial colonies (cfu)
1200
1000
800
600
400
200
0
p < 0.05
Sham
CLP + preimmune IgG
CLP + anti-C5a
Groups

FIGURE 3

Effect of Anti-C5a on Bacterial Counts
in Septic Rats at 36 hrs

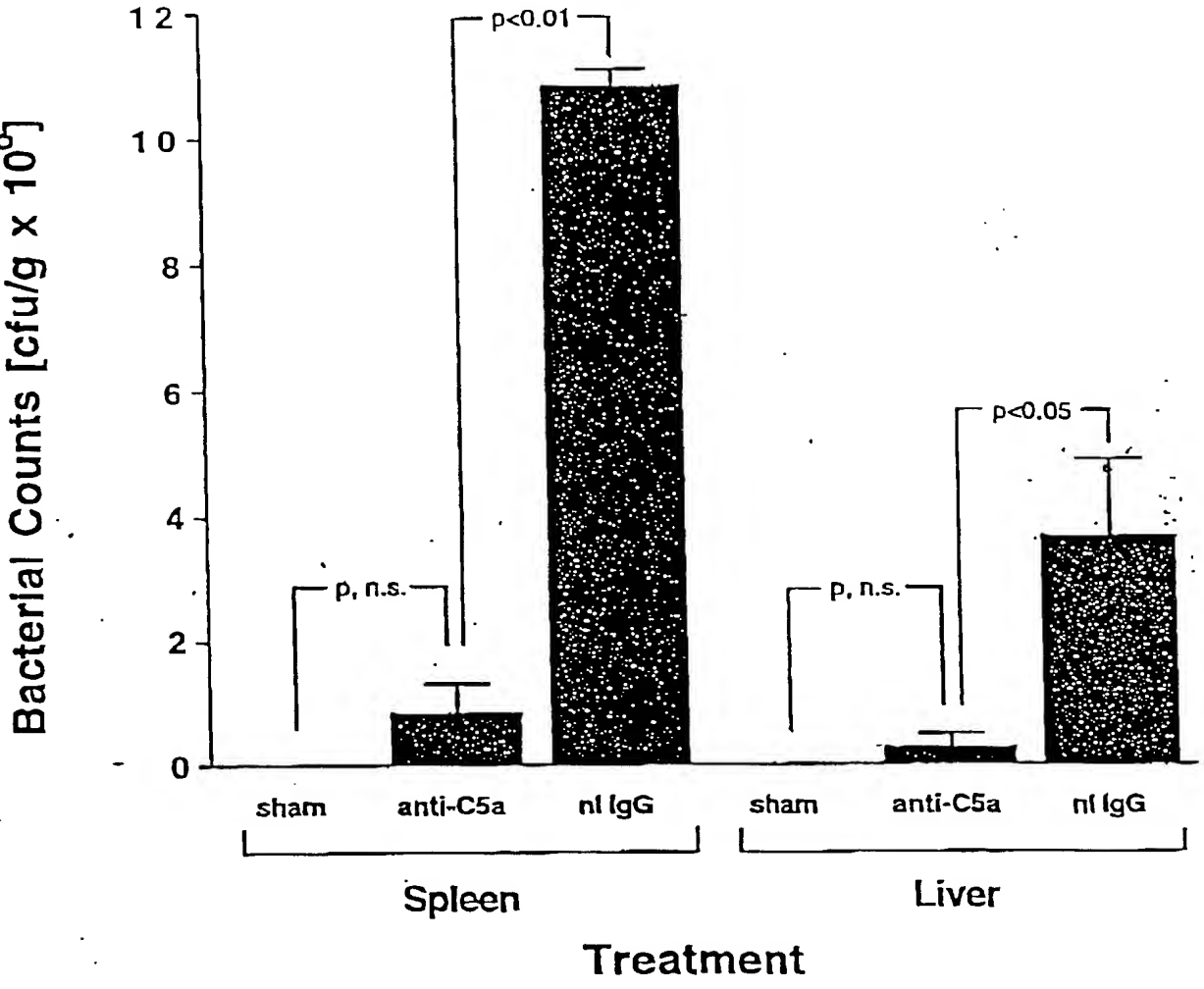


FIGURE 4

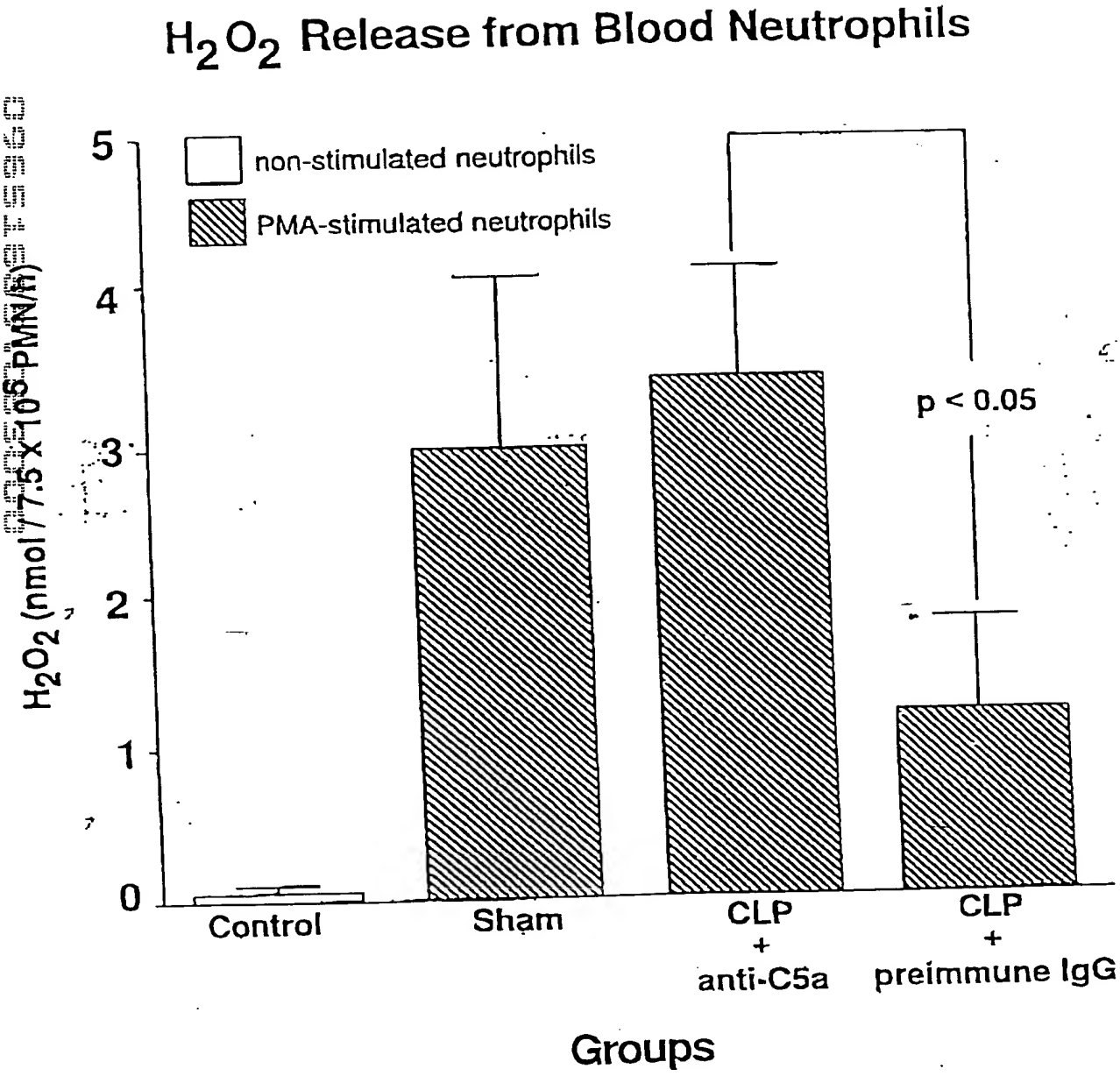

H_2O_2 Release from Blood Neutrophils
non-stimulated neutrophils
PMA-stimulated neutrophils
H_2O_2 (nmol/7.5 x 10^5 PMN/h)
0
1
2
3
4
5
p < 0.05
Control
Sham
CLP + anti-C5a
CLP + preimmune IgG
Groups

FIGURE 5

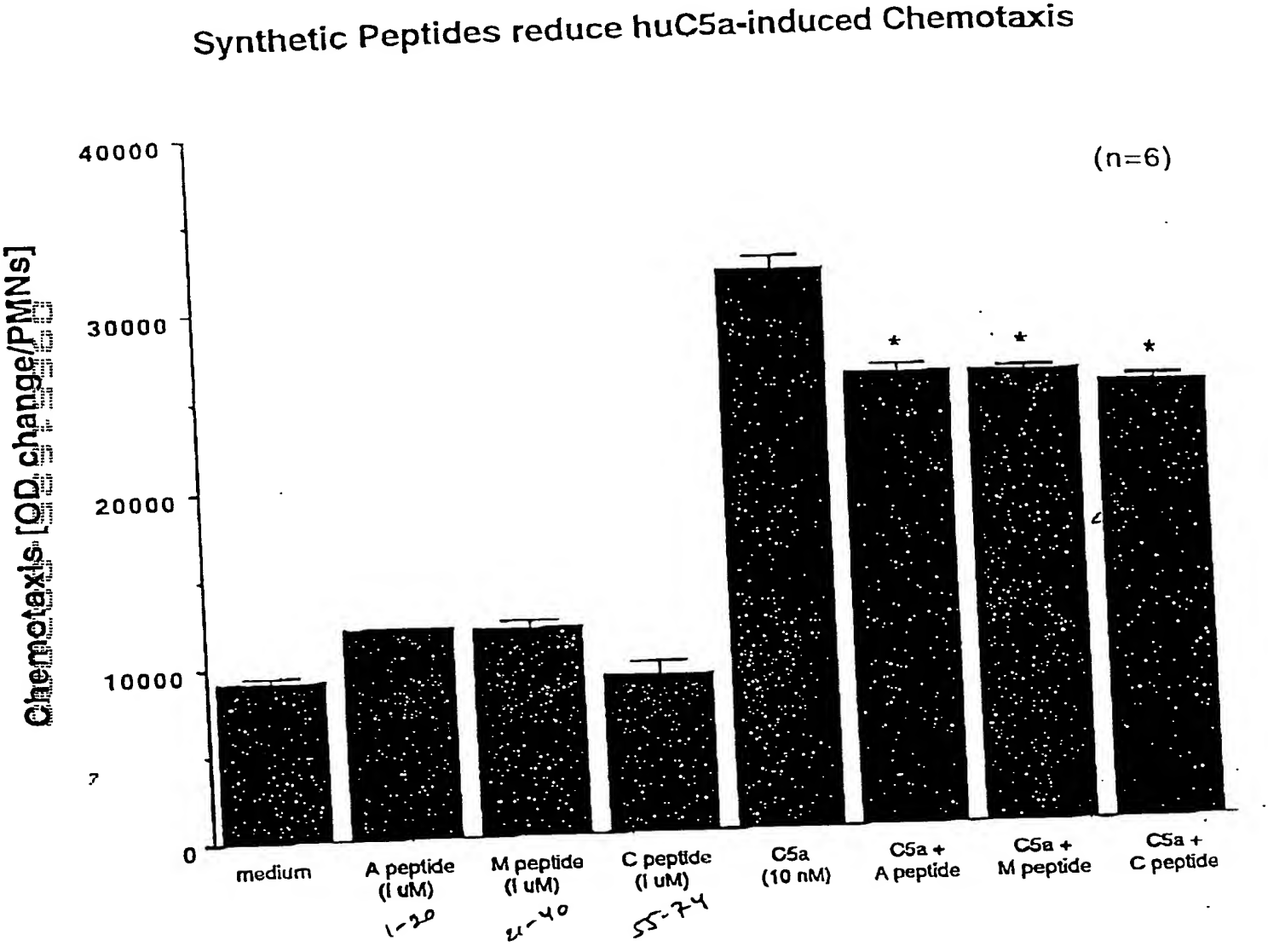

Synthetic Peptides reduce huC5a-induced Chemotaxis
(n=6)
Chemotaxis [OD change/PMNs]
40000
30000
20000
10000
0
*
*
*
medium
A peptide (1 uM)
1-20
M peptide (1 uM)
21-40
C peptide (1 uM)
55-74
C5a (10 nM)
C5a + A peptide
C5a + M peptide
C5a + C peptide

FIGURE 6

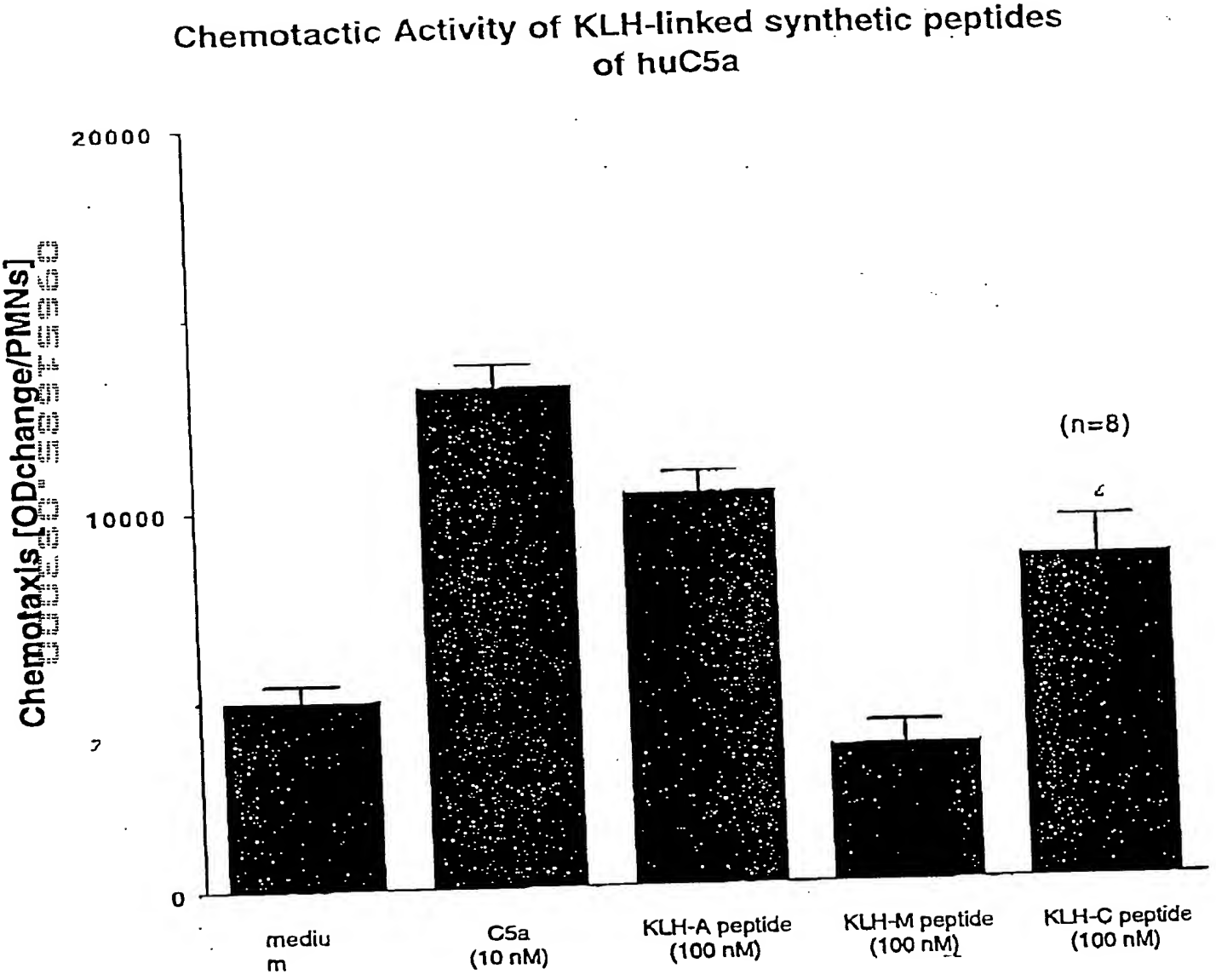

Chemotactic Activity of KLH-linked synthetic peptides of huC5a
Chemotaxis [ODchange/PMNs]
20000
10000
0
(n=8)
mediu m
C5a (10 nM)
KLH-A peptide (100 nM)
KLH-M peptide (100 nM)
KLH-C peptide (100 nM)

FIGURE 7

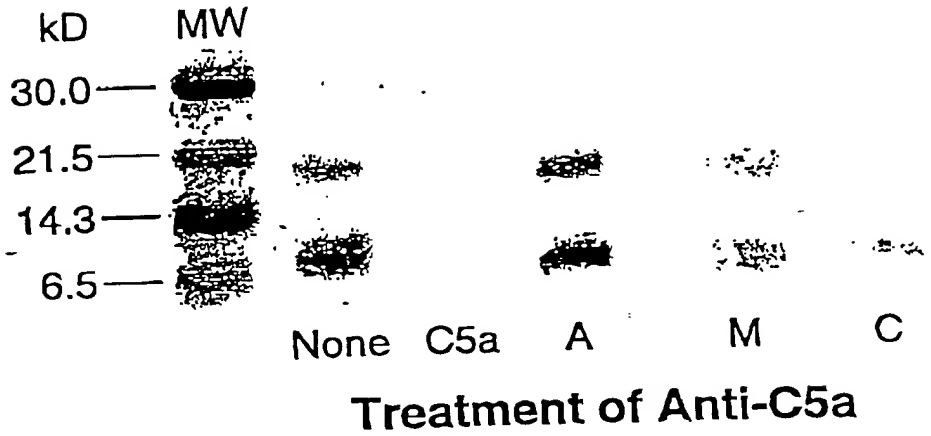

Western Blots Using Anti-C5a
kD
MW
30.0
21.5
14.3
6.5
None
C5a
A
M
C
Treatment of Anti-C5a

FIGURE 8

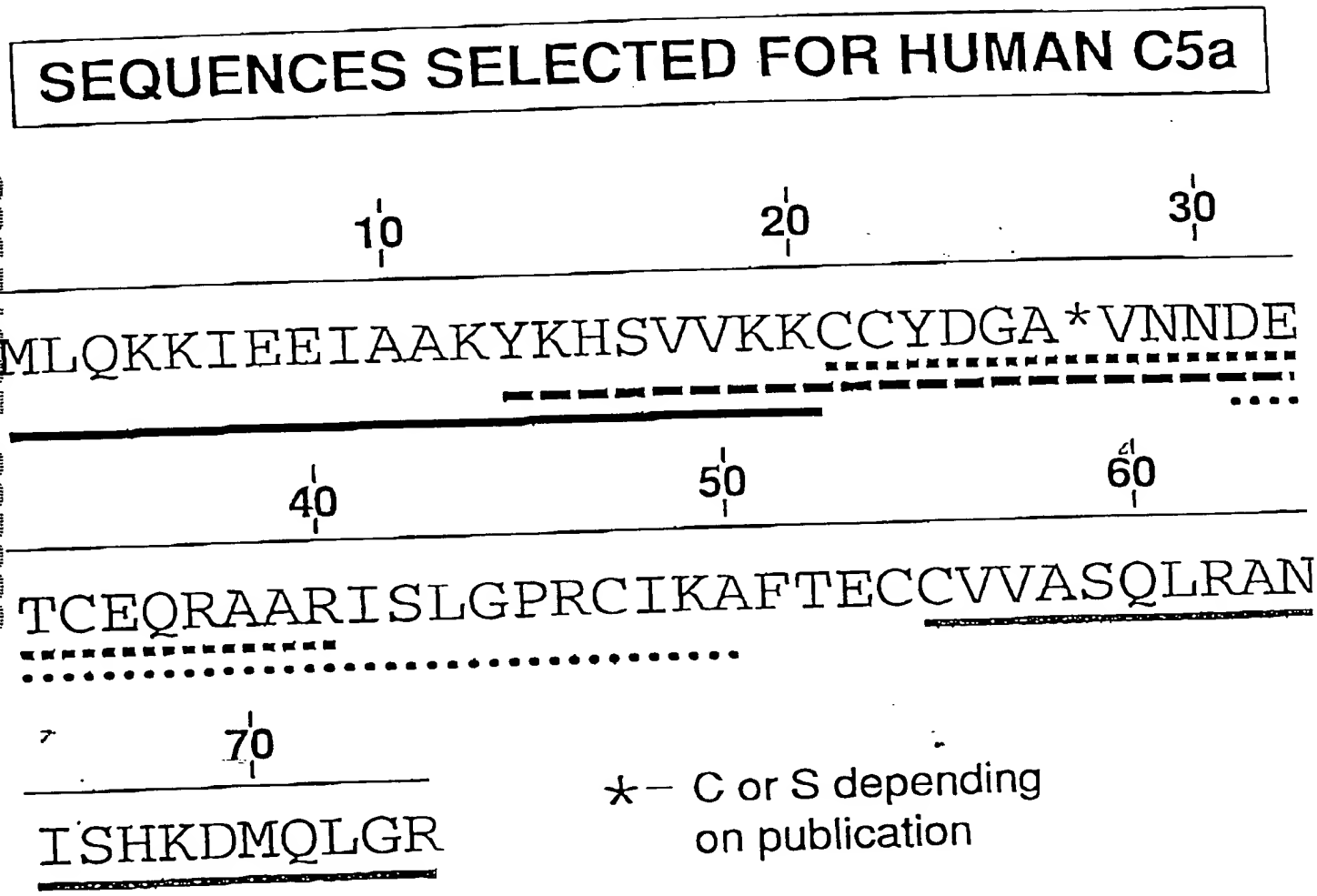
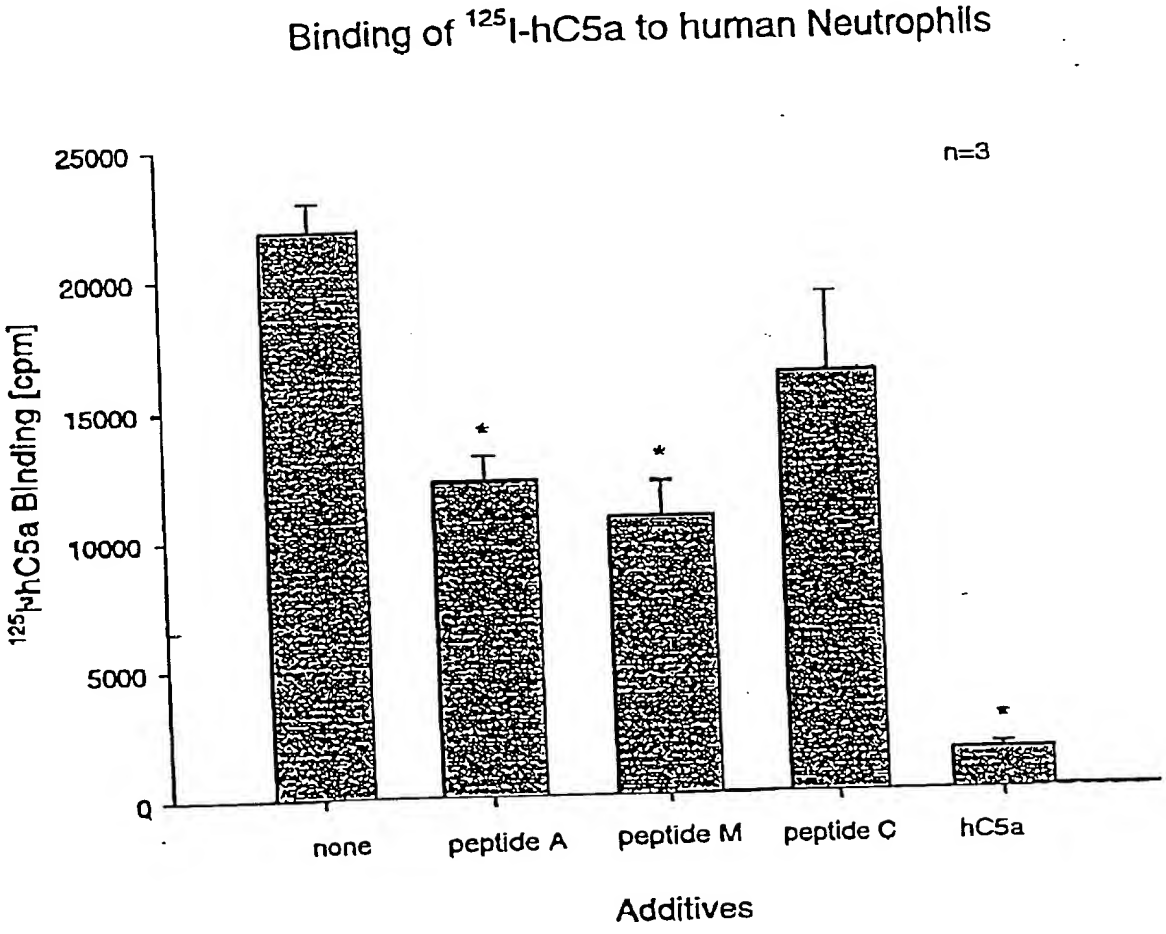

SEQUENCES SELECTED FOR HUMAN C5a
10
20
30
1 MLQKKIEEIAAKYKHSVVKKCCYDGA*VNNDE
40
50
60
33 TCEQRAARISLGPRCIKAFTECCVVASQLRAN
70
65 ISHKDMQLGR
* – C or S depending on publication
Sequences Selected:
1-20 (A)
13-32
21-40 (M)
31-50
55-74 (C)

FIGURE 9



peptide A: H-MLQKKIEEIAAKYKHSVVKK-OH

peptide M: H-CCYDGASVNNDETCEQRAAR-OH

peptide C: H-CVVASQLRANISHKDMQLGR-OH

FIGURE 10

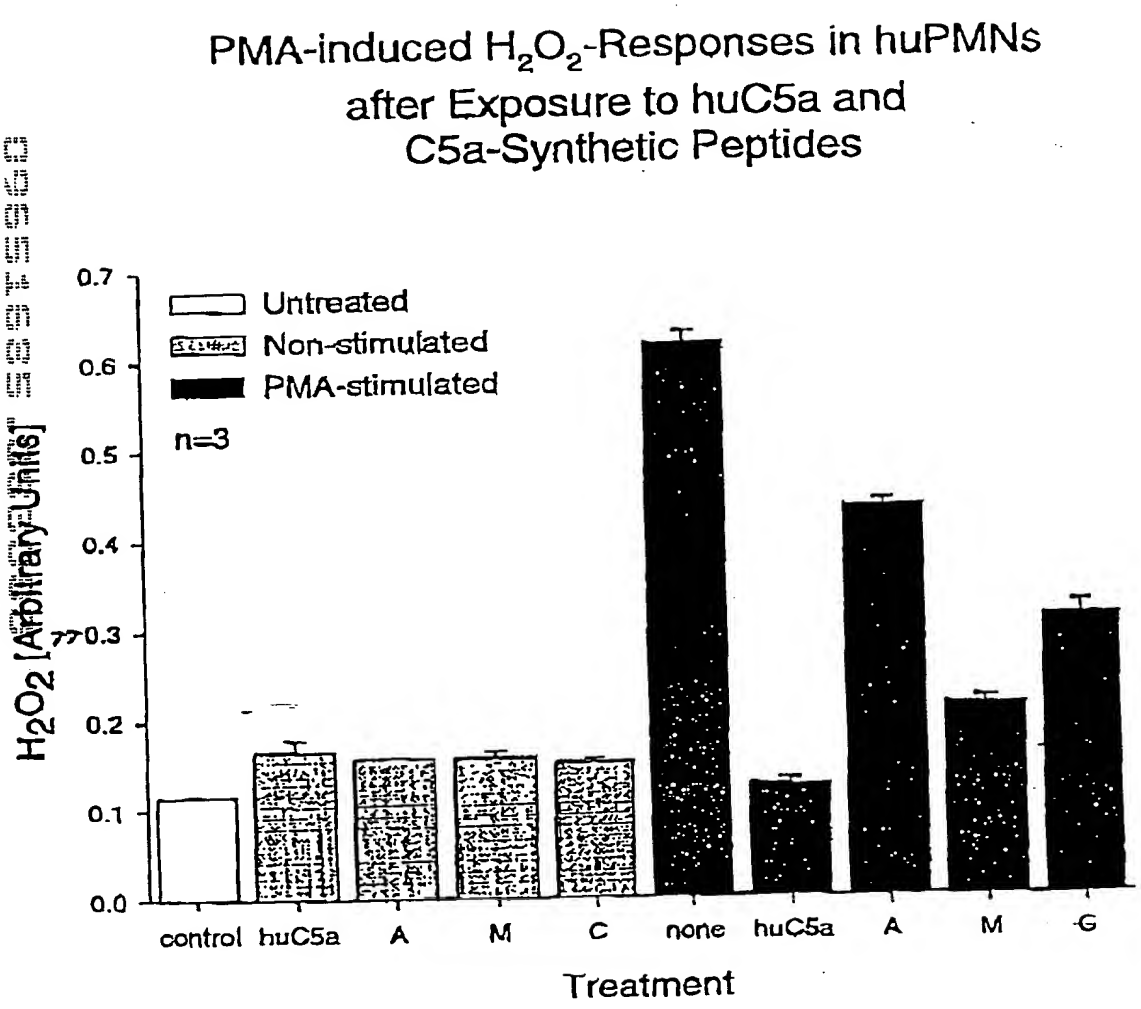
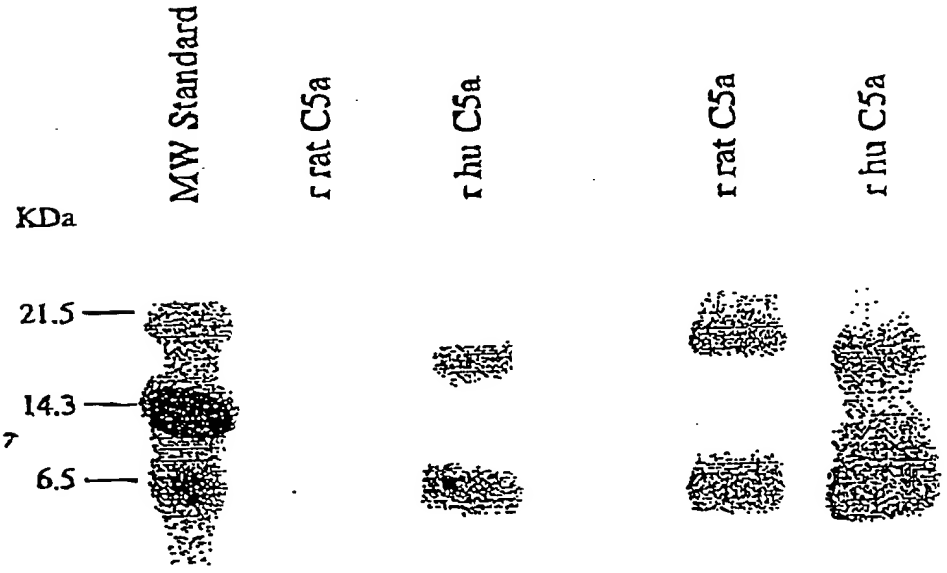

PMA-induced H_2O_2-Responses in huPMNs
after Exposure to huC5a and
C5a-Synthetic Peptides
H_2O_2 [Arbitrary Units]
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
Untreated
Non-stimulated
PMA-stimulated
n=3
control
huC5a
A
M
C
none
huC5a
A
M
G
Treatment

FIGURE 11

Specific Detection of hC5a by Anti-hu C5a M-Peptide



Detection by: Anti-hu C5a M-Peptide Anti-huC5a

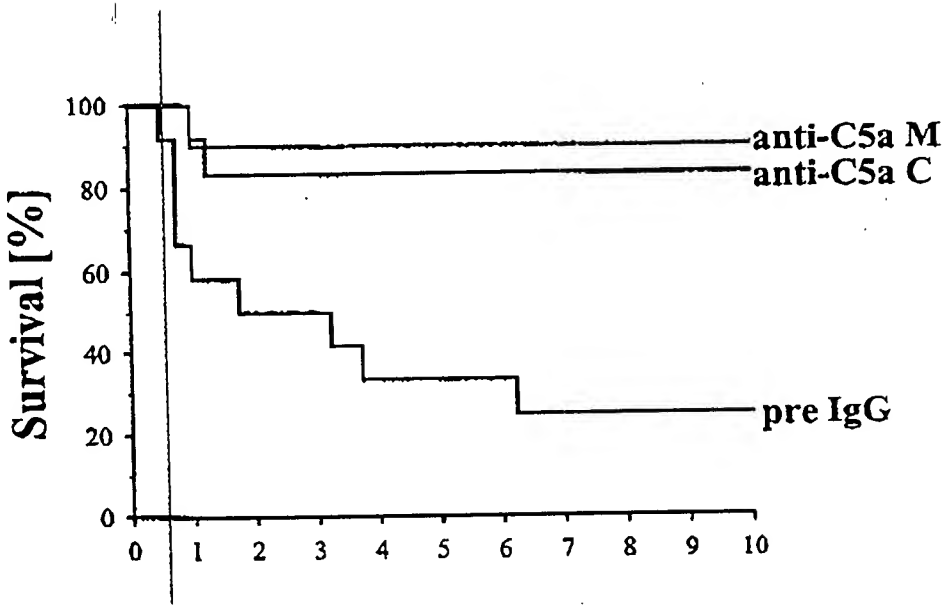

Survival [%]
100
80
60
40
20
0
0
1
2
3
4
5
6
7
8
9
10
anti-C5a M
anti-C5a C
pre IgG

FIG. 12A

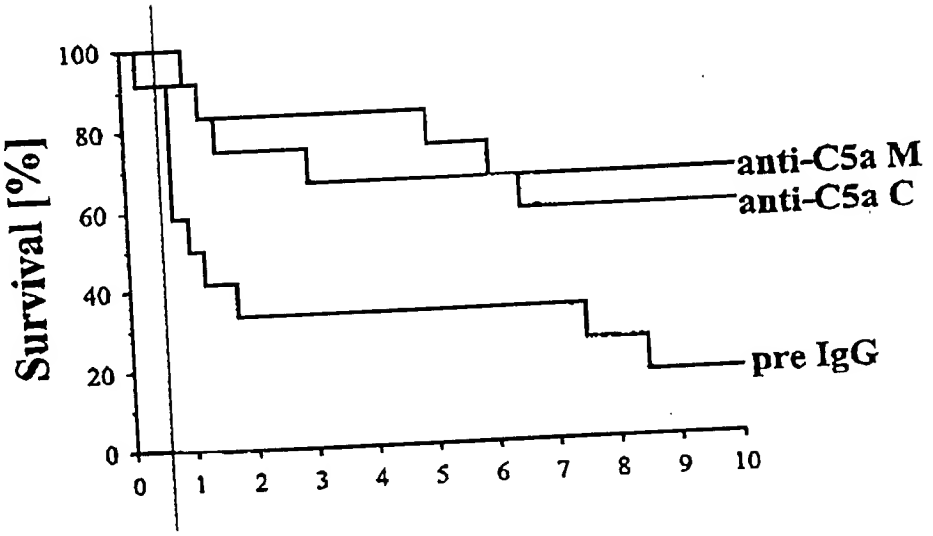
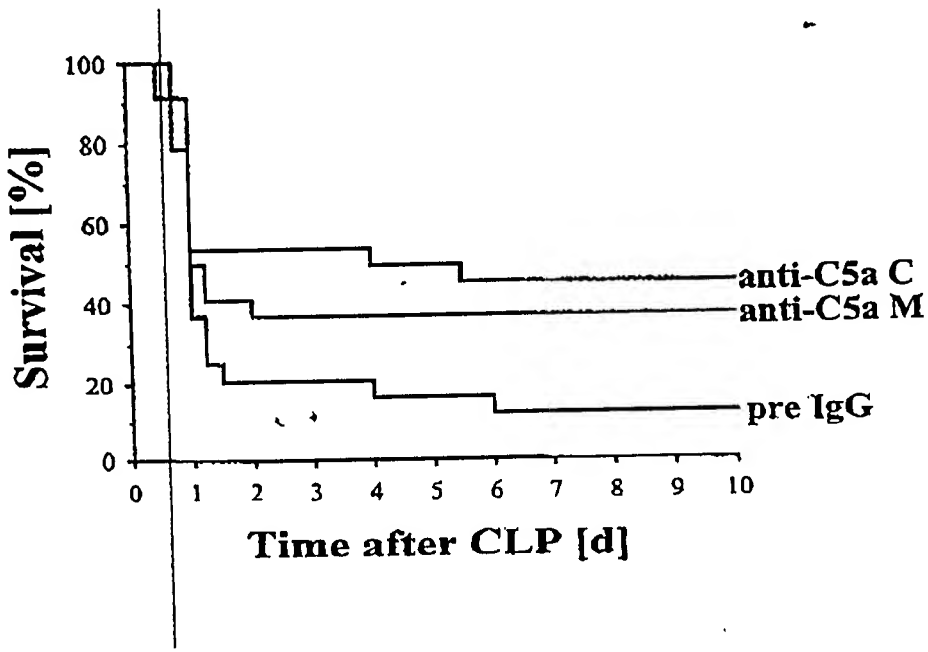

Survival [%]
100
80
60
40
20
0
0
1
2
3
4
5
6
7
8
9
10
anti-C5a M
anti-C5a C
pre IgG

FIG. 12B



100
80
60
40
20
0
Survival [%]
0
1
2
3
4
5
6
7
8
9
10
Time after CLP [d]
anti-C5a C
anti-C5a M
pre IgG

FIG. 12C

```
        10        20        30
mlq kki eel aak ykh svv kkc cyd gas vnn det ceq 36
raa ris lgp rcl kaf tec cvv asq lra nis hkd mql 72
gr 74
```

FIG. 13

```
   _ 10          20          30
dlq llh qkv eeq aak ykh rvp kkc cyd gar enk yet 36
ceq rva rvt lgp hcl raf nec ctl adk irk esh hkg 72
mll gr 77
```

FIG. 14

Hu C5a"M" CCY DGA SVN NDE TCE QRA AR aa 21-40

FIG. 15A

Hu C5a"M" CCY DGA CVN NDE TCE QRA AR aa 21-40

FIG. 15B

Hu C5a"C" CVV ASQ LRA NIS HKD MQL GR aa 55-74

FIG. 16

Rat C5a"M" KHR VPK KCC YDG ARE NKY ET aa 17-36

FIG. 17

Rat C5a$^{\prime\prime}$C$^{\prime\prime}$ CTI ADK IRK ESH HKG MLL GR aa 58-77

FIG. 18

```
  1 gatccagtat qttgcaaaaa aaaattgaag aaattgctgc taaatataaa cattctgttg
 61 ttaaaaaatg ttgttatgat ggagcttctg ttaataatga tgaaacctgc gaacaacgcg
121 ctgctagaat ttctttggga cctagatgta ttaaagcatt tacagaatgt tgtgttgttg
181 cttctcaatt gagagcgaat atttctcata aagatatgca attgggaaga taggatccgt
241 cga
```

FIG. 19